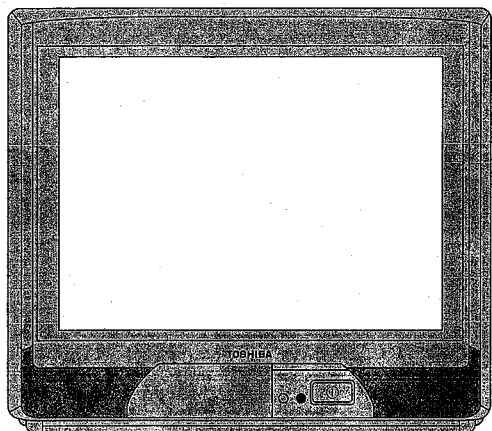


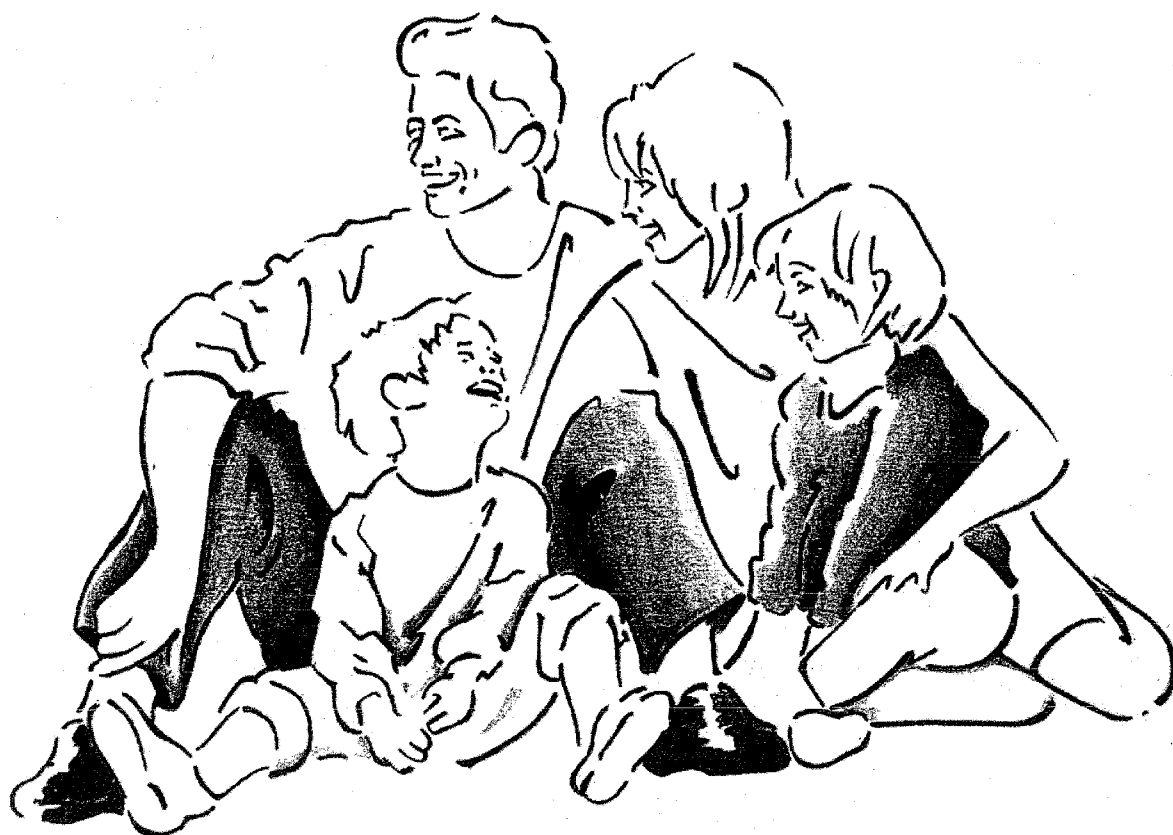
TOSHIBA



Nicam
Colour Television
with fastext

2152DB

OWNER'S MANUAL



GETTING STARTED

BASIC OPERATION

SOUND FEATURES

ADDITIONAL FEATURES

VIEWING TEXT

OTHER

Introduction

If you follow the instructions in this booklet your TV will give you many years trouble-free enjoyment. Please read the instructions carefully before you begin using your TV and keep the booklet handy for future reference.

Contents:

GETTING STARTED

Installation	Page 2
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Tuning in (Switching on, Tuning in, Manual Fine Tune and Skip)	Pages 4/5/6

BASIC OPERATION

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Installation:

Positioning your TV

Locate the television where direct sunlight does not impair the picture, soft and indirect lighting is recommended for comfortable viewing.

Avoid locations which are excessively warm, moist or humid to prevent damage to the cabinet and components. Leave enough space around the television to allow adequate ventilation and sound response.

Mains Connection

This equipment will operate on any supply between 220 and 240v 50Hz. Never connect to a DC supply or any other power source.

Mains Plug

DO NOT cut off the fused mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance.

The fuse fitted in this plug is 5A. and is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be re-fitted.

IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN

Aerial

To get the clearest picture and best text operation we strongly advise that you use either a roof-top or loft mounted aerial. Your local Toshiba dealer will advise you accordingly.

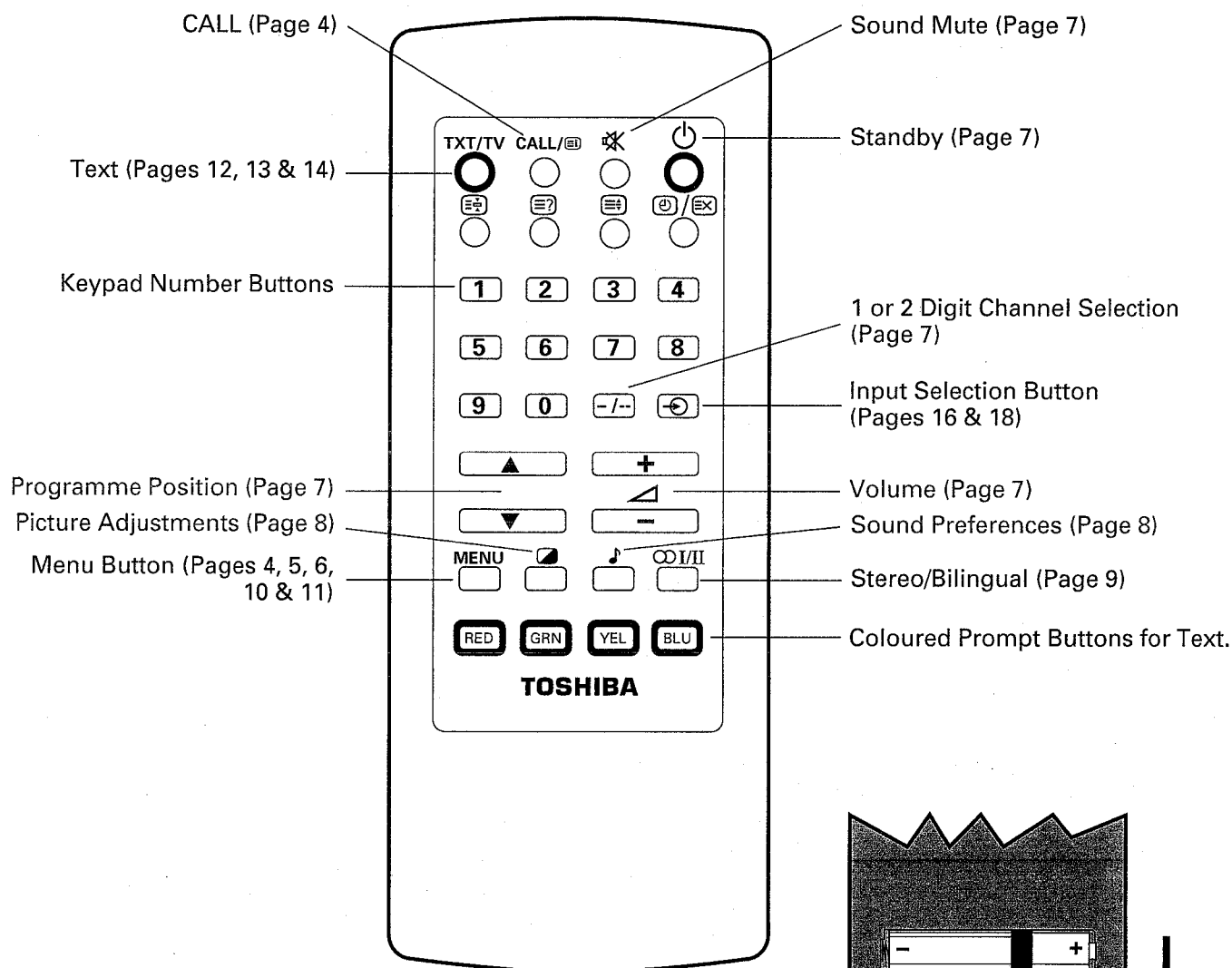
Connecting up

Connect the Aerial plug to the socket on the rear of the television. Connect the mains plug to a suitable power point and switch on.

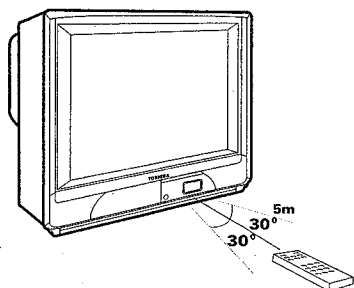
Your remote control

The illustration below is designed to show the areas of the remote control. Individual buttons are described in the text.

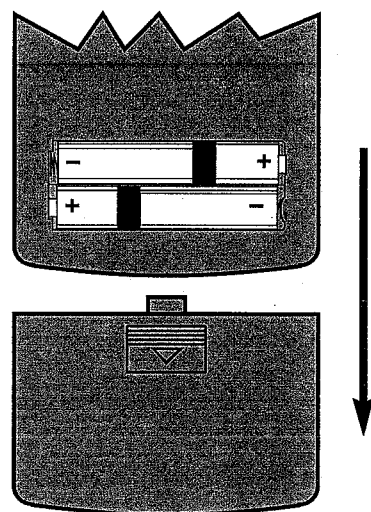
Operation:



Effective Range of the Remote Control



Release the back cover catch of the remote control by pushing in the direction of the arrow. This will reveal the battery compartment. When fitting new batteries take care to observe the correct polarities. All Toshiba batteries are Cadmium and Mercury free. Wherever possible replace with similar batteries. Suitable battery types are: R6, AA.



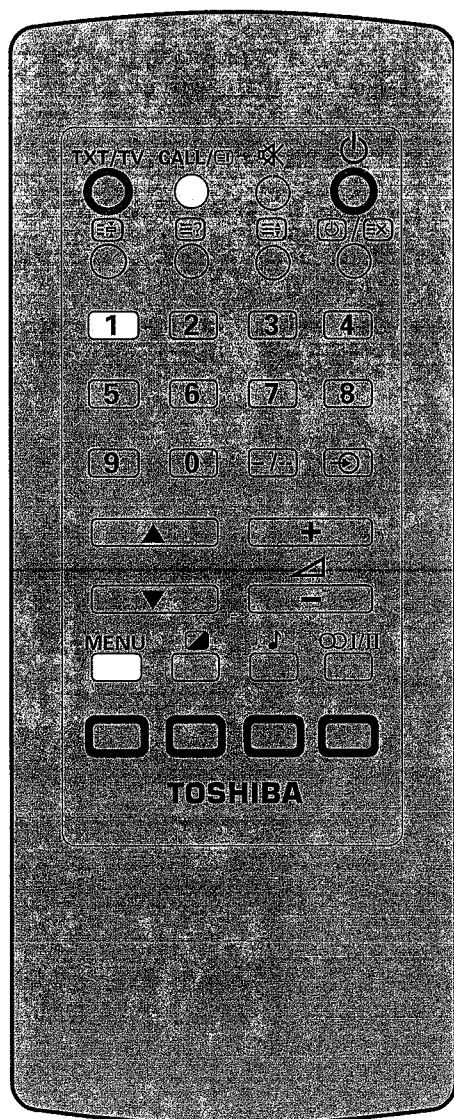
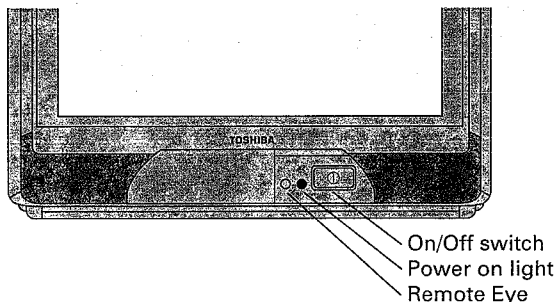
Caution:

DO NOT throw your batteries into a fire. **ALWAYS** dispose of your batteries in a designated disposal area. **DO NOT** mix battery types. **DO NOT** combine a used old battery with a new one.

Tuning in

Due to the complicated map of TV transmitters we are unable to pre-tune your TV. The following simple steps will take you through the process, enabling you to allocate any TV station to any programme position.

Switching on, Tuning in:



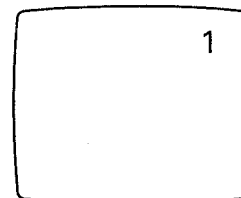
All the displays associated with tuning-in your TV will remain on screen for approximately 15 seconds. To bring a display back simply press the MENU button.

Once you have completed a step, you can cancel any display by pressing the CALL button.

- 1 If the Power-On light is unlit, press the on/off switch on the front of the TV to switch the set into standby mode.

The Power-On red light will glow.

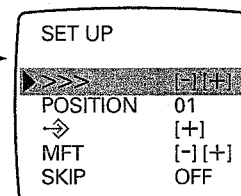
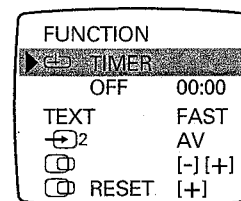
- 2 Press button 1 on the remote control to turn the TV on.



- 3 Press the MENU button on the remote control repeatedly to select between the FUNCTION menu, SET UP menu and normal TV mode.

Note: The sequence of displays is as shown.

Note: This is the screen you need to tune your TV.

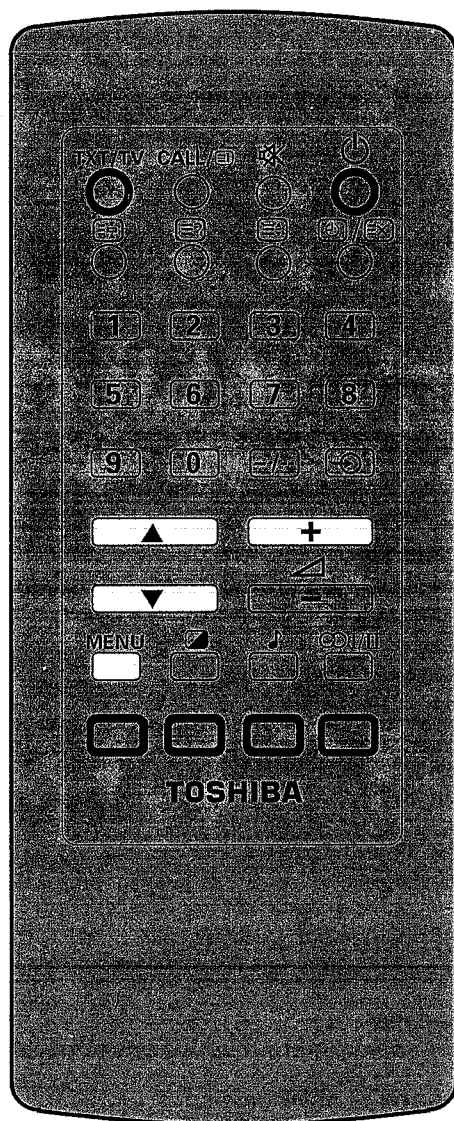


Do not worry if the display disappears, simply pressing the MENU button again recalls the display.

Tuning in

NOTE: If the display disappears during step 2 below, simply press the MENU button and repeat both steps 1 and 2.

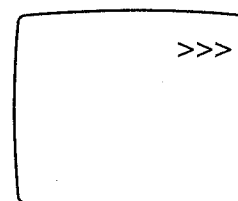
Tuning in:



- 1** With the SET UP menu showing, press the **▲** button to select **>>>**. Now press the **↖+** button to search for a station.

SET UP	
>>>	[+]
POSITION	01
↗	[+]
MFT	[+]
SKIP	OFF

The SET UP menu will be replaced by the flashing **>>>** symbol in the top right corner of the screen.



When a station is found, it will be displayed along with the station name. If the picture quality is poor, due to a weak signal, press the **↖+** button again to restart the search.

When the end of the band is reached, the **>>>** will flash slowly. Press the **↖+** button to recommence searching the band.

- 2** When a station is found and the SET UP menu has returned, you will then need to allocate a programme position number of your choice.

For example 01 for BBC1, 02 for BBC2 etc.

Press the **▼** button to select the adjacent display. Repeatedly pressing the **↖+** button will raise the programme position number by 1.

SET UP	
>>>	[+]
POSITION	01
↗	[+]
MFT	[+]
SKIP	OFF

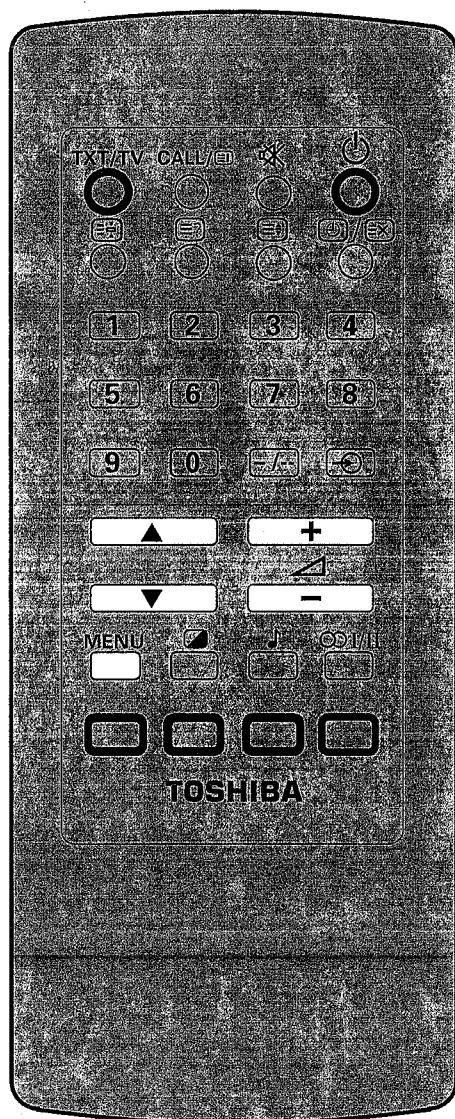
Holding down the **↖+** button will raise the programme position by 10.

SET UP	
>>>	[+]
POSITION	10
↗	[+]
MFT	[+]
SKIP	OFF

Tuning in is continued overleaf

Tuning in

Tuning in, Manual Fine Tune, Skip:



The Skip feature enables you to prevent certain programme positions from being viewed. For example, if you are going out for the evening and you do not wish your children to watch a certain film etc., you can skip the programme position and take the remote control with you. The TV will function normally, using the controls on the front, but will not show the skipped programme position.

Note: A * will appear beside a skipped programme position when using the numbered buttons on the remote control.

- 3** Now press the ▼ button to select → (Memory Store).

Press the ▲+ button to store.

The indicator will revert to >>>> position. Repeat steps 1, 2 and 3 for all remaining stations that you wish to tune in.

If you do not use the Memory Store the programme position will not be held in memory.

SET UP	
>>>>	[-][+]
POSITION	01
→	[+]
MFT	[-][+]
SKIP	OFF

SET UP	
>>>>	[-][+]
POSITION	01
→	[+]
MFT	[-][+]
SKIP	OFF

Manual Fine Tune

(Not normally required) will enable you to adjust the tuning manually to optimise the picture.

- 1** Press the MENU button repeatedly until the adjacent display appears. Press the ▲ button to select MFT. Press the ▲+ or - buttons to achieve the best picture.

SET UP	
>>>>	[-][+]
POSITION	01
→	[+]
MFT	[+]
SKIP	OFF

Tuning in is now complete.

Skip a channel

(Repeat for all programme positions to be skipped)

- 1** To turn the SKIP function on (or off), use the remote control to select the programme position number to be skipped.

SET UP	
>>>>	[-][+]
POSITION	10
→	[+]
MFT	[-][+]
SKIP	OFF

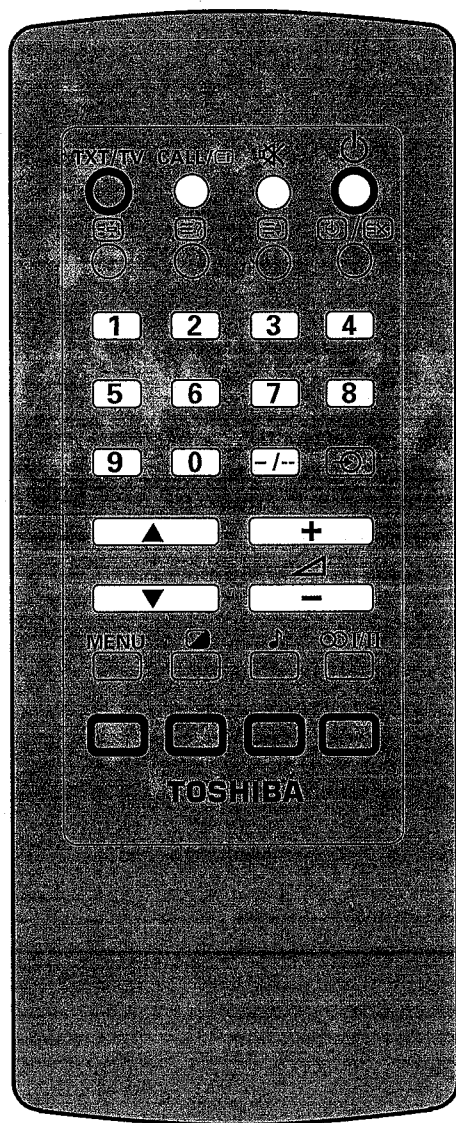
- 2** Press the MENU button repeatedly until the SET UP menu appears. Press the ▲ button to select SKIP. Press the ▲+ button to turn the SKIP function on (or off).

SET UP	
>>>>	[-][+]
POSITION	10
→	[+]
MFT	[-][+]
SKIP	ON


Watching TV programmes

NOTE: To identify the current programme position press the CALL button. Press again to cancel the display.



Volume settings, Changing programme positions using the remote control:

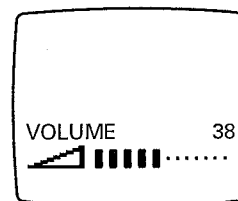


Standby Button



This allows you to put the set into standby mode when leaving the TV unattended for short periods of time. The Power-On red light will continue to glow. To return to TV mode press the  button, or any of the numbered buttons on the remote control.

To alter the volume

- 1 To raise or lower the volume, press the  or  buttons. The display will show the changes.

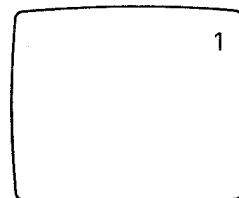


Alternatively:

The sound can be muted simply by pressing the  button. Press again to restore the sound, the  symbol will disappear.



To change programme position


- 1 To select a programme position press one of the numbered buttons.

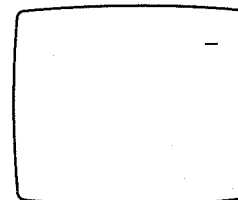



The programme position will be displayed in the top right corner of the screen.

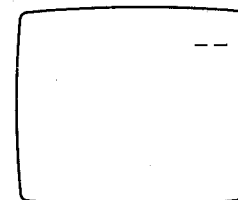
Alternatively:

You can change the programme position by using the  button to increase by one or the  button to reduce by one.

- 2 For programme positions below 9, press the  button to select -. Enter the desired programme position number using the numbered buttons on the remote control.



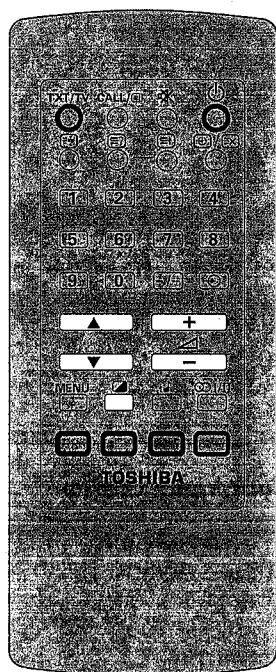
- 3 For programme positions above 9, press the  button to select --. Enter the desired 2 digit programme position number (10-59).




Picture/Sound adjustment






Any changes made, will automatically be displayed, both graphically and as a digital read-out, and will be stored in memory when the display disappears.

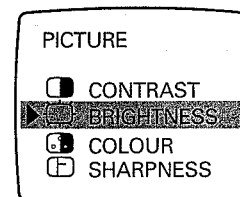
Picture adjustment using the remote control:





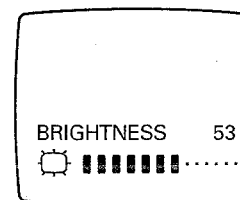
Contrast, Brightness, Colour and Sharpness Adjustments

- 1 Press the button  to select the PICTURE menu.

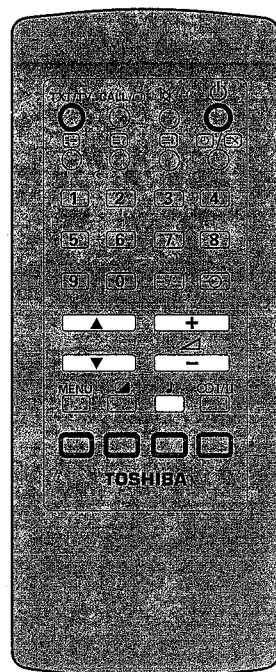
Press the  button repeatedly to select between the Contrast , Brightness , Colour  and  Sharpness.








- 2 You can select your own levels of Contrast, Brightness, Colour and Sharpness. Use the  + button to increase the level and the  - button to decrease the level.

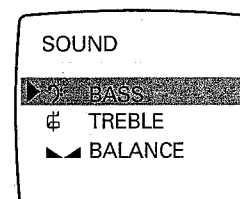




Sound adjustment using the remote control:

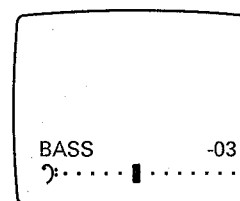


Bass, Treble and Balance Adjustments

- 1 Press the  button to select the SOUND menu. Press the  button to select between Bass , Treble  and Balance .



- 2 You can adjust levels of Bass, Treble and Balance. Use the  + button to increase the level and the  - button to decrease the level.

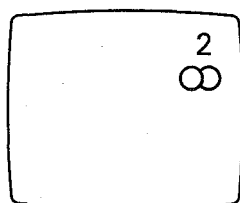


Stereo or bilingual broadcasts

This TV set is designed to receive and automatically select all Nicam transmissions. The following describes the operation and displays which accompany stereo broadcasts. Nicam broadcasts can be in either Stereo or Mono.

Stereo mode:

If Nicam broadcasts are transmitted the ∞ symbol will appear in the upper right corner of the screen, after a few seconds the display will disappear. The display will reappear each time you change programme positions, provided that the broadcast is in Nicam.



Some common problems with Nicam reception:

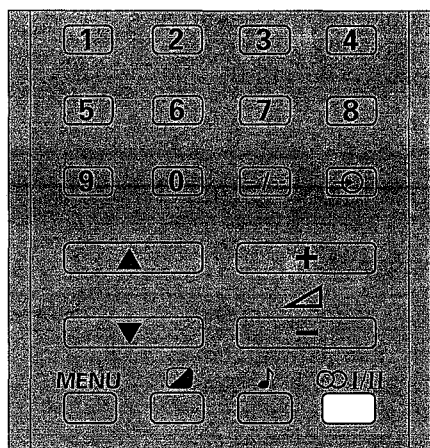
No Nicam ∞ symbol appears:

- 1 It is not a Nicam transmission.
- 2 Your local transmitter has not been upgraded for Nicam.

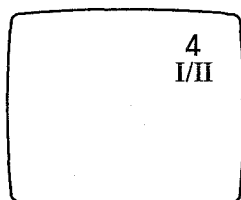
Note: For Nicam information refer to the TV programme magazine or text pages for your area.

Nicam ∞ symbol appears but sound is in Mono

- 1 You have selected Mono (∇) mode.
- 2 The transmission is in Mono.
- 3 The original soundtrack of the film etc. was recorded in Mono.

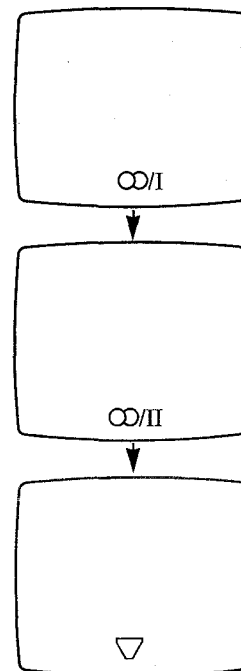


Bilingual transmissions are rare. If bilingual broadcasts are transmitted the I/II symbol will be displayed.



To select stereo/mono mode

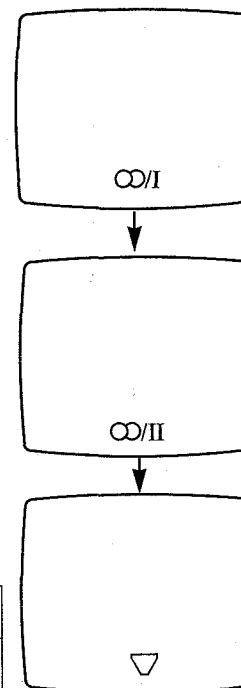
- 1 Press the ∞ I/II button repeatedly, the ∞ /I, ∞ /II and ∇ symbols appear alternately in the lower part of the screen.
- 2 Select ∞ /I or ∞ /II for Nicam sound, or ∇ for mono. (Non-Nicam signals or areas of poor Nicam reception)



SOUND FEATURES

To select bilingual mode (when transmitted)

- 1 Press the ∞ I/II button repeatedly, the ∞ /I, ∞ /II and ∇ symbols appear alternately in the lower part of the screen.
- 2 Select ∞ /I for language 1, ∞ /II for language 2 or ∇ for normal mono. (This has the same effect as for language 1).

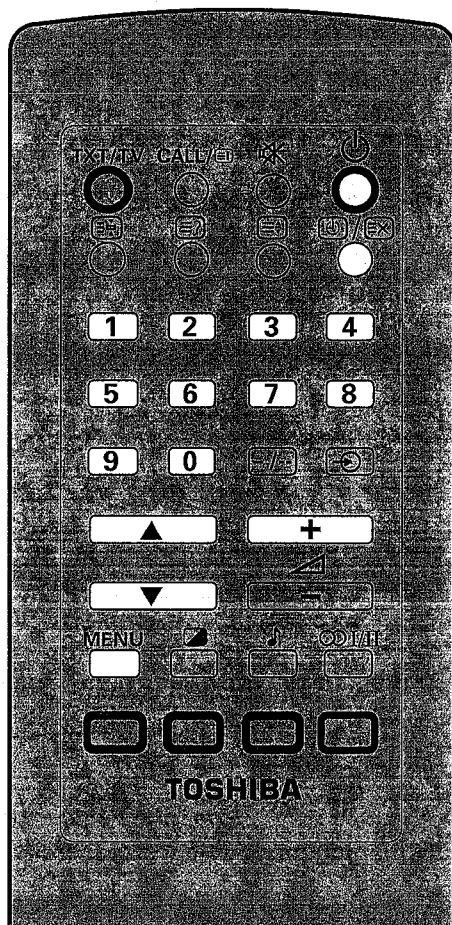


Symbol	Soundtrack	Bilingual
∞ /I	Stereo	Language 1
∞ /II	Stereo	Language 2
∇	Mono	Language 1

Time facilities

The Timer is especially useful if you want the television to turn itself to standby after a selected period of time. For example: If you want the set to turn itself to standby in 2 ½ hours time follow the procedure below.

Timer:



To select the Off Timer

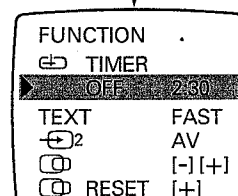
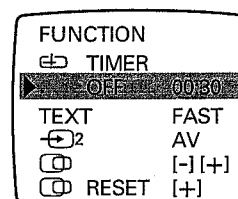
- 1 Press the MENU button to bring up the adjacent display. Press the ▲ button to select the timer. Press the ▴+ button to increase the time by 1 minute.

Holding down the ▴+ button will increase the time in 30 minute intervals.

Allow the display to disappear - the timer is now set.

The maximum delay time which can be set is 12 hours 59 minutes.

Note: After the timer has operated press either the ⏻ button or any of the numbered buttons on the remote control to return the set to TV mode.

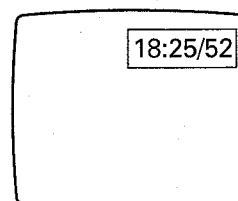


'No signal - automatic off', Time display:

This sets incorporates a 'No Signal - Automatic Off' feature which will turn the TV to standby approximately 15 minutes after the broadcast station closes down.

Time Display

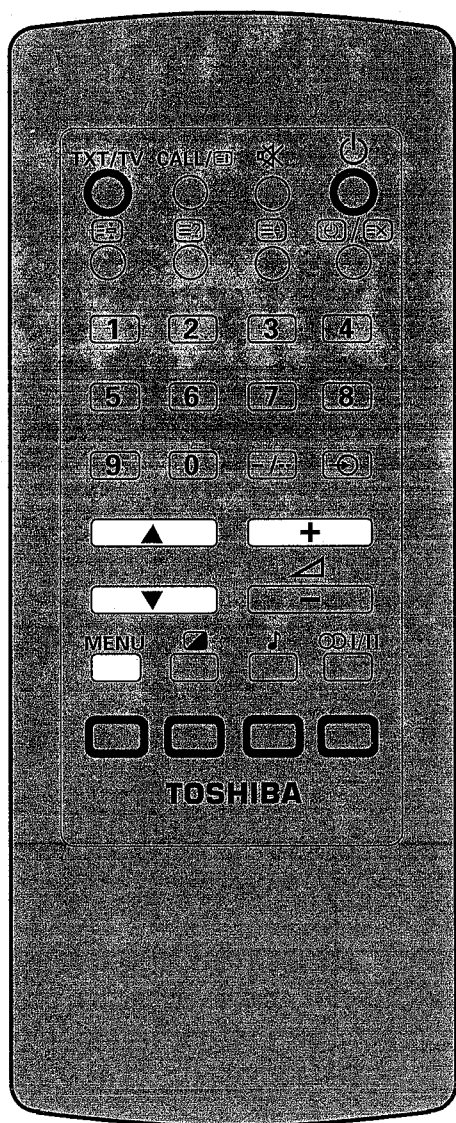
- 1 If you press the ⏻/⏻ button whilst watching a normal TV broadcast, you will see a very accurate time display appear in the top right corner of the screen. ie 6.25 and 52 seconds p.m.




MENU's






In addition to the screen displays already discussed, the following pages cover the additional features of your new Toshiba TV.


Text, External AV input 2, Picture centring control:








To select TEXT system


- 1 Press the MENU button repeatedly until the adjacent display appears. Press the  to select text.





FUNCTION		
	TIMER	OFF 00:00
	TEXT	FAST
	2	AV
		[-][+]
	RESET	[+]





- 2 To change between FAST (Fasttext) and LIST (Normal text) use the + button. See pages 12,13 and 14 for details of TEXT operation.

FUNCTION		
	TIMER	OFF 00:00
	TEXT	LIST
	2	AV
		[-][+]
	RESET	[+]

External AV Scart 2





2 enables the selection of the type of video recorder to be connected to the number 2 scart socket. The **S** sets up the television for S-Video, the **AV** sets the television for standard video recorders.

- 1 Press the MENU button repeatedly to bring up the adjacent display. Press the  button to select 2. Press the + button to select the required input signal for 2.

FUNCTION		
	TIMER	OFF 00:00
	TEXT	FAST
	2	S
		[-][+]
	RESET	[+]




Remember: Only connect your S-Video recorder to Scart 2.





See pages 16 and 17 for connections.




FUNCTION		
	TIMER	OFF 00:00
	TEXT	FAST
	2	S
		[-][+]
	RESET	[+]

Picture centring control

This is factory set and should need little or no adjustment, however, if when viewing text or using a computer the display is to one side, adjustment to a central position can be made.

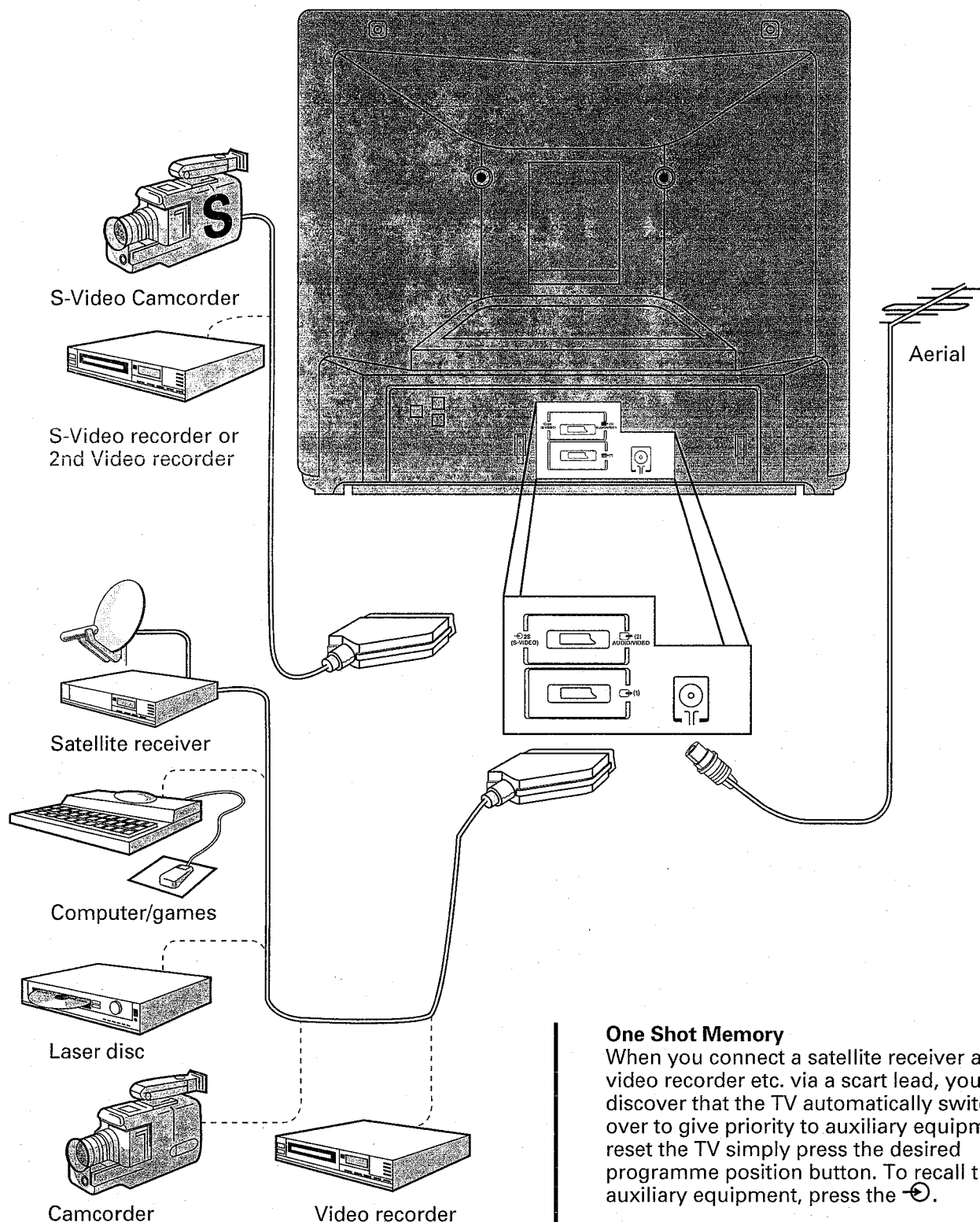
- 1 Press the MENU button repeatedly to bring up the adjacent display. Press the  button to select . Press the + button to adjust.

FUNCTION		
	TIMER	OFF 00:00
	TEXT	FAST
	2	S
		[-][+]
	RESET	[+]


- 2 Press the  button to select  RESET. Press the + button to reset to the factory setting.

Connecting other equipment

The diagram below illustrates some of the possible connections for auxiliary equipment. Please refer to page 17 or the relevant handbook for further details.



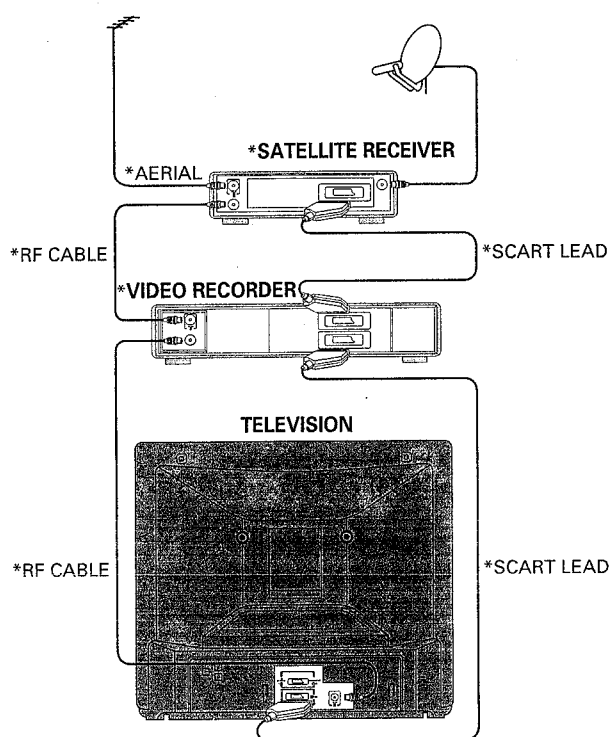
One Shot Memory

When you connect a satellite receiver and/or video recorder etc. via a scart lead, you may discover that the TV automatically switches over to give priority to auxiliary equipment. To reset the TV simply press the desired programme position button. To recall the auxiliary equipment, press the .

Connecting satellite receiver/video recorder

Shown on this page are some basic connections for other equipment. If your particular requirements are not shown, please contact your local Toshiba dealer, who will be able to advise you accordingly. For the best results we recommend that you use Scart connectors whenever possible.

Connecting a satellite receiver/video recorder:



To connect your television to a video recorder with 2 scart sockets and to a satellite receiver with 1 scart socket:

- 1 Connect the aerial/R.F. cables as shown.
- 2 Connect the scart leads as shown.
- 3 This configuration will now enable you to record directly from the satellite receiver in stereo (if your equipment has this facility).

* Not supplied with this television.
Full specification Scart leads are required.

If your auxiliary equipment does not have the scart connections as shown, see below or contact your local dealer.

If your satellite receiver has 2 scart sockets and your video recorder has 1 scart socket:

- 1 Connect the aerial/R.F. cables as shown.
- 2 Connect one scart lead from the satellite receiver to the television. Connect another scart lead from the satellite receiver to the video recorder.
- 3 This configuration will now enable you to record directly from the satellite receiver in stereo (if your equipment has this facility).

Alternatively:

If your satellite receiver and your video recorder each have 1 scart socket you will need a switch to record in stereo from the satellite receiver:

- 1 Connect the aerial/R.F. cables as shown.
- 2 Connect the scart leads for both the satellite receiver and video recorder to a switch (for details contact your local Toshiba dealer).
- 3 Connect the switch to your television via a scart lead.
- 4 This configuration will now enable you to record directly from the satellite receiver in stereo, (if your equipment has this facility) whilst watching a terrestrial TV programme.

Connections, Glossary of terms

Connections:

These sets have two 21 pin Scart sockets which enable you to connect a wide range of audio/video equipment (see pages 16 and 17).

If your auxiliary equipment does not have a Scart socket. Connect the video, satellite receiver etc. to the TV via the aerial socket.

To tune your TV to a video recorder/satellite receiver, press the 'Power On' button and either play a pre-recorded tape (on the video recorder) or simply leave the satellite receiver in standby.

Press the MENU button on the remote control repeatedly until the SET UP menu appears. Press the ▲ button to select the >>>. Press the ▽+ button to commence the search.

When the playback or satellite programme is found, assign your chosen programme position(s).

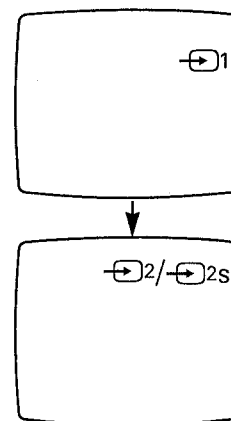
(Full details on tuning in are to be found on pages 4, 5, and 6 of this handbook.)

Automatic Input Selection

1 If any auxiliary equipment is connected to this TV via the scart connector, you may discover that the TV automatically switches over to monitor the equipment. This depends upon the type of auxiliary equipment connected.

To return to TV mode simply press one of the numbered buttons on the remote control. To view the auxiliary equipment again, simply press the ↺ button.

If the TV does not switch over automatically, press the ↺ button to select between input ↻1 (Scart 1) or input ↻2/↻2s (Scart 2). Press the ↺ button to return to TV mode.



Glossary:

Euro Connector/ Scart Socket:

A standard 21-pin socket which allows direct audio/visual connection providing higher quality. For example, for direct connection from video recorder or satellite receiver.

Fastext:

An improved text system providing easier and faster access to text pages via colour-coded keys on the remote control.

Nicam:

Nearly Instantaneous Companded Audio Multiplex.
A digital transmission system which gives near CD sound clarity on both stereo and mono soundtracks when received by a Nicam TV or Nicam video recorder.

PAL (Phase Alternate Line):

U.K. broadcast standard.

Programme Position:

The numbered button assigned to a particular station or channel on the remote control.

RF Cable

For direct connection to TV, video recorder and satellite - it looks like an aerial lead.

Size of Screen:

Screen sizes are measured diagonally across the screen and quoted in centimetres.

Standby:

Switches the set to 'Rest' mode to save power over short periods of time.

Specifications and Accessories

Specifications:


Input Power Rating	75 Watts. AC 220 - 240 Volts 50 Hz.	
Mains Plug 'Fitted' fuse	5 amp	
Aerial Input Impedance	75 ohm unbalanced type for UHF	
Receiving Channels	CCIR (PAL - I) UHF: Channels 21-69	
Programme Positions	60	
Tuning system	Voltage Synthesis	
Intermediate Frequencies	Picture I.F. carrier frequency	39.50 MHz.
	Sound I.F. carrier frequency	33.50 MHz.
	Colour sub - carrier frequency	35.07 MHz.
Stereo	NICAM - 1	
Teletext	Fastext (4 page memory positions 0-9, others 1 page)/List	
Picture Tube	21 inches A51EFS43X69 or A51EAL55X01 51 cm (measured on diagonal of viewable picture) 90 degree deflection	
Video Input	PAL/60 Hz.	
Aux. Terminals	Input/output. Scart - 1 (full 21 pin) RGB, AV. Input/output. Scart - 2 (21 pin) AV, S - video.	
Sound output (at 10% distortion)	5 + 5 watts (rms)	
Speakers	60 x 70 mm. Full range. 2 pcs.	
Cabinet	Table type	
Dimensions	Width	526 mm
	Height	482 mm
	Depth	489 mm
Mass	21.5 Kg. net	
Features	Fastext (4 page). NICAM - 1. Dynamic Scene Control. Video input of PAL 60 Hz. On screen display. Picture sharpness control.	Off Timer. No signal off. No signal mute. S - video plus AV. 21 pin Euro connector (full).
Accessories	1 Remote control 2 (RO6, AA) batteries 1 Stand	

For your guidance

If your TV fails to operate correctly, please follow these simple checks before contacting your local Toshiba dealer.

Simple problem solving:

No Picture or Sound.



Check mains switches are on, press 
Plug into a known working mains socket.
'Timer off' facility has operated.

If in doubt, contact a competent electrician.

Poor or no Picture.

Try a different TV station, check your aerial and connections. Adjust fine tuning.

Good picture but no sound.

Press  + or press .

Remote Control does not work.

Check the batteries.

If you have problems with text.

Go to the main index page of the text service and look for the User Guide. This will explain the basic operation of text in some detail.

Sound not in Stereo.

Check that your local transmitter is Nicam equipped.

Coloured patches on screen.

Caused by magnetic field interference, turn off TV for 10 minutes, turn on again, fault of temporary nature.

VTR or satellite picture in Black and White.

Ensure the correct input socket is being used and that the socket is not switched to S-Video.

Safety tips:

SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT. PLEASE READ THE FOLLOWING POINTS CAREFULLY. THEY ARE OF A GENERAL NATURE, INTENDED TO HELP YOU WITH ALL YOUR ELECTRONIC CONSUMER PRODUCTS. SOME ITEMS MAY NOT APPLY TO THE GOODS YOU HAVE JUST PURCHASED. This equipment has been designed and manufactured to meet international safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections, including the mains plug, extension leads and inter connections, between pieces of equipment, are properly made and in accordance with the manufacturers instructions. Switch off and withdraw the mains plug when making or changing connections.

DO be careful with glass panels or doors on equipment.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way - switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume, as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment for example, with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws - to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided, according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture. ABOVE ALL - NEVER let anyone, especially children, push anything into holes, slots or any other openings in the case - this could result in a fatal electric shock - NEVER guess or take chances with electrical equipment of any kind - it is better to be safe than sorry.

Cleaning the screen and cabinet.

After turning off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you do not use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

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